

DISK DRIVE DATA PROTECTION USING CLUSTERS CONTAINING ERROR DETECTION SECTORS

Abstract of the Disclosure

The present invention is related to methods and apparatus that can enhance the reliability of a hard drive by providing a built-in error check in the drive. Conventional hard drives can erroneously seek to an incorrect location on a platter of the hard drive. The erroneous seek corrupts the data stream and is difficult to detect and correct. Embodiments of the present invention can detect a logical block address assigned to a portion of the platter of the hard drive and thereby detect when an erroneous seek has occurred. Upon detection of an error, one embodiment of the present invention can further take corrective action to read from the correct portion of the platter.

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